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A DEFINITION AND SHORT NAME FOR A
NEWLY DEVELOPED INSECTICIDAL ORGANIC CHEMICAL

A recent article by Kearns, Ingle and Metcalf (Jour. Econ. Ent. 38:661 (1945) reported the toxicity to a number of species of insects of a chlorinated hydrocarbon having the empirical formula $C_{10}H_6Cl_8$. The product was referred to as "1068" and was described as "possibly a mixture of isomers which have as yet not been resolved and evaluated individually." The product and its insecticidal properties have also been subsequently referred to in a goodly number of other publications, statements, and communications which have had general distribution. In these references it has been described in much the same general manner as a chlorinated hydrocarbon with the empirical formula $C_{10}H_6Cl_8$. Some references, especially advertisements, have included the trade-mark names "Velsicol 1068" and "Octa-Klor."

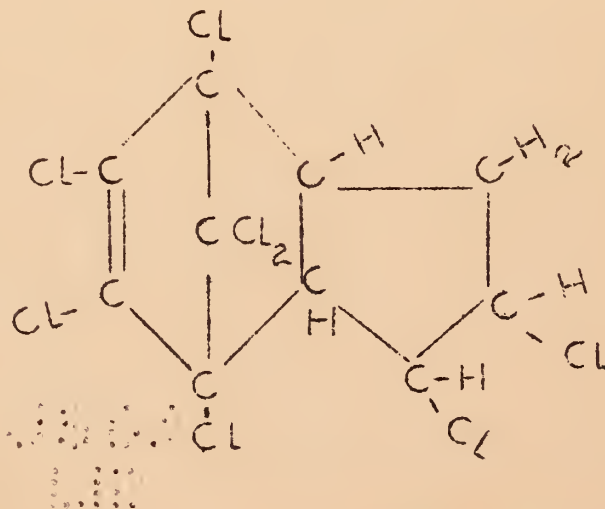
None of these descriptions or designations gives sufficient information to designate accurately the product or inform the investigator in regard to its nature. The description and designations are also inadequate for labeling commercial insecticides containing the product to meet the requirements for interstate movement under the Insecticide Act of 1910.

At conferences participated in by representatives of the companies producing the product, representatives of the Bureau of Entomology and Plant Quarantine and the Insecticide Division of the Production and Marketing Administration (both of the U. S. Department of Agriculture), and the Food and Drug Administration of the Federal Security Agency, information was developed as to the nature of the product, including the name of principal chemical constituents. It was agreed that use of the long exact chemical name is impracticable and undesirable. It was also agreed to propose and recommend the use of a short common name as a substitute, which would be defined and registered with the U. S. Patent Office to preempt its use as a trade-mark name. It was further agreed that the name and definition would be submitted to interested organizations, particularly the American Association of Economic Entomologists, with recommendation that they adopt it as standard.

The common name selected is "chlordanes," and search of the files at the U. S. Patent Office discloses this name has not been registered. The chemical name is:

CHLORDANE - 1,2,4,5,6,7,8,8 - octachloro - 4,7 - methano - 3a, 4, 7, 7a - tetrahydroindane.

Its structural formula is:



The definition proposed for the commercial products produced for use in compounding insecticides is:

TECHNICAL CHLORDANE - A commercially produced chemical containing 60 to 75% of chlordane, together with 25 to 40% of related compounds occurring in the normal manufacturing processes which are toxic to insects.

S. A. Rohwer -

On behalf of those participating
in the conferences and with their
approval.

February 25, 1947.

